

# Instruction Manual



## WWC & CCW Static



impression

from software version 1.00/30  
(Instruction version 1.00)



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## Preface

This manual serves for both systems the **IMPRESSION WWC** as well as the **IMPRESSION CCW**. The two systems differ from each other only by the number of cold- respectively warm- white LEDs.

**WWC version:** 30x LEDs cold white, 60x LEDs warm white

**CCW version:** 60x LEDs cold white, 30x LEDs warm white

Notes:

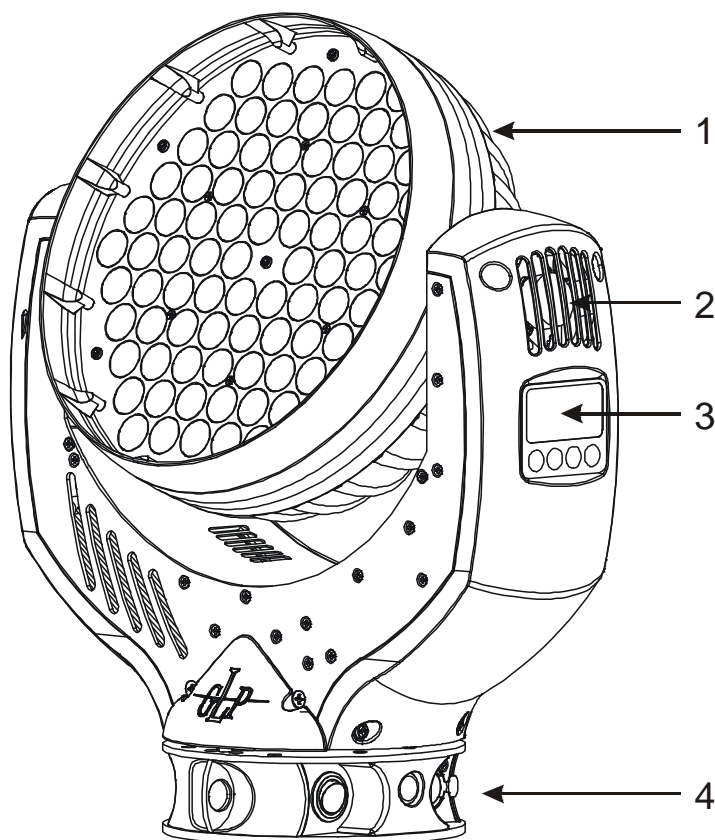
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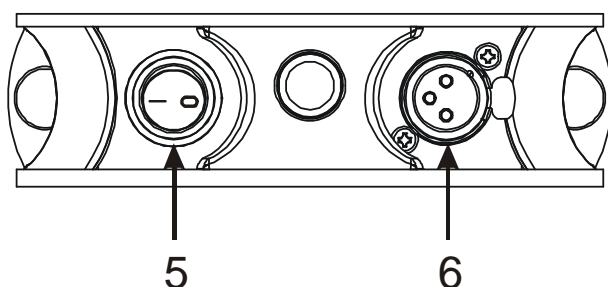
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## 1 Description of Device

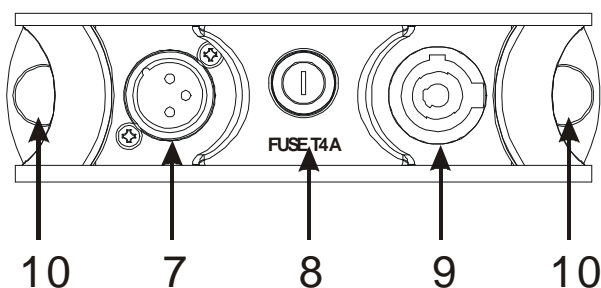
1. Moving head (actively and passively cooled)
2. Arm with various cooling vents
3. LCD-Display/Menu (data entry)
4. Base with various connectors and Camlock mounting system



base side 1



base side 2



5. Power On/Off
6. DMX- Output (3 pole)
7. DMX- Input (3 pole)
8. Micro-fuse 5x20mm, T4A
9. Mains supply (Powercon)
10. 2x Safety eyes

## 1.1 Safety Instructions



The **IMPRESSION** is a High-Tech Product. To guarantee a smooth operation, it is necessary to respect the following rules. The manufacturer of this device will not take responsibility of damages through any disregard of the information in this manual. Warranty claims also will be cancelled in case the system casing is opened.

1. Make sure before putting the system into operation, that the fan and the air inlets are clean and not blocked by anything.
2. It must be assured that the system-head can rotate unhindered throughout his complete rotating range. A safety distance of at least 0.5 m to any easily inflammable material (e.g. decoration material) must be adhered.
3. **Attention!** Don't touch the device during the operation. This can cause injuries or damages.
4. **The system doesn't contain any maintainable parts. Don't open it!**
5. It is necessary to wait at least 15 minutes after disconnecting the AC before changing the optical carrier. Pay attention to possibly hot parts of the system. **-- Danger of BURNING --**
6. **Never look directly into the beam of light or one of the LEDs.** Never use optical apertures with a distance less than 0.5 m to observe the beam of light. **LED Class 2M.** You'll risk a serious injury of your eyes and in particular of your retina.



**Attention:** LED Class 2M can cause injuries of your eyes even without optical instruments in front of them or within a distance of less than 0.5m and short exposure time.

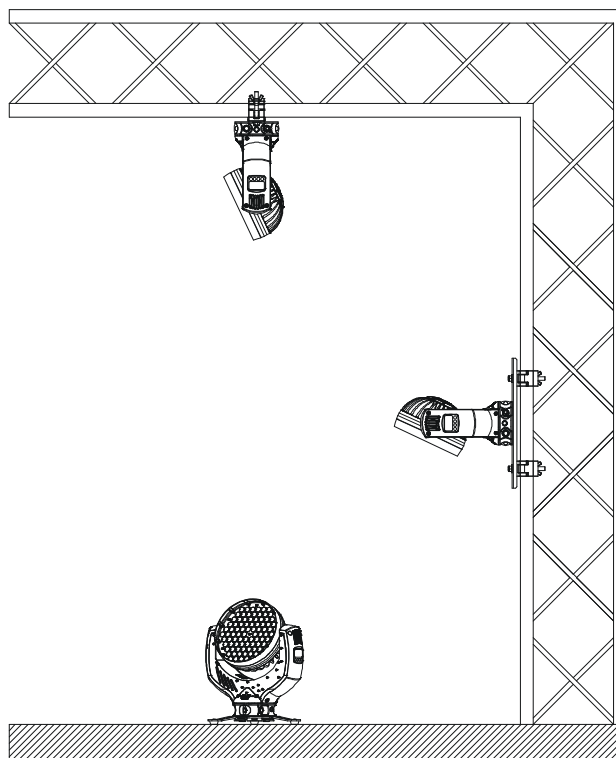
**Hence: Avoid direct radiation of your eyes!**

7. To allow a secure operation, follow also the Installation guide described in chapter 2. Operating the **IMPRESSION** without suitable safety aids like Safety cables or clamps/hooks can increase the risk of an accident.
8. Repair-, maintenance- and installation work shall be done by qualified or GLP certified staff only. You need to pay attention to the common rules of technology that are not explicit mentioned in this manual.
9. Use only original spare parts. Any structural modification on the system will terminate all warranty claims.

## 2 Preparation and Installation

### 2.1 Mounting

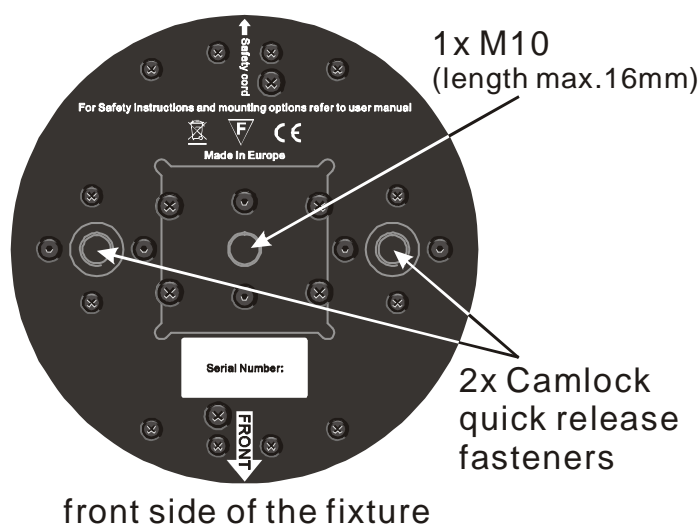
The **IMPRESSION** is fully operational whether it hangs or is mounted to the wall. It can also be operated while standing on the floor. Keep a safety distance of 0.5 m towards any easily inflammable materials (decoration etc.).



**Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217.**

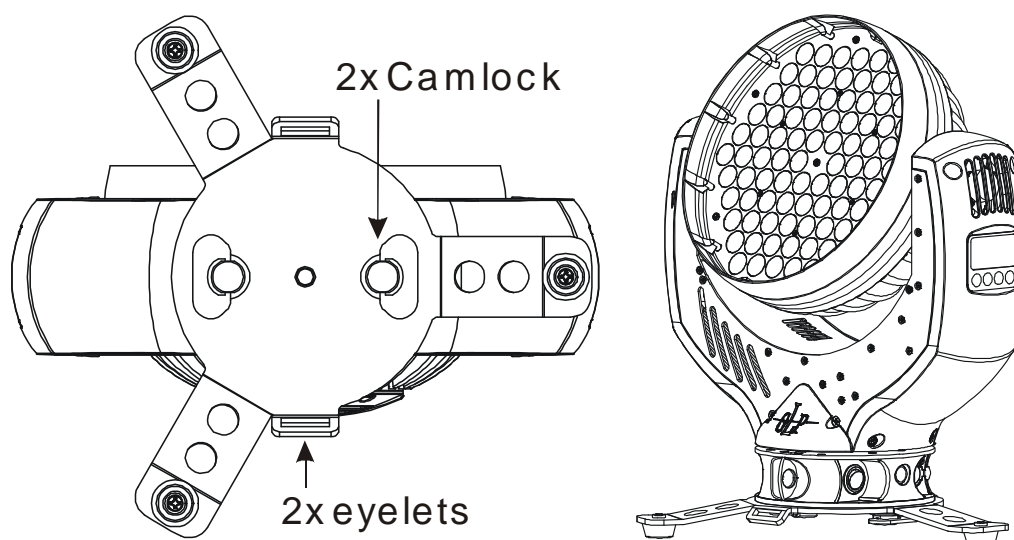
**The installation shall be done by qualified staff only.**

For the various mounting positions of the **IMPRESSION** (standing on the floor, sideways or hanging) different accessories kits are available. Through this a safe and firm installation is assured. You'll find special connectors on the bottom side of the system which are put to use here. In addition the front side of the system is marked with (FRONT) as this is important for a even orientation during installation.



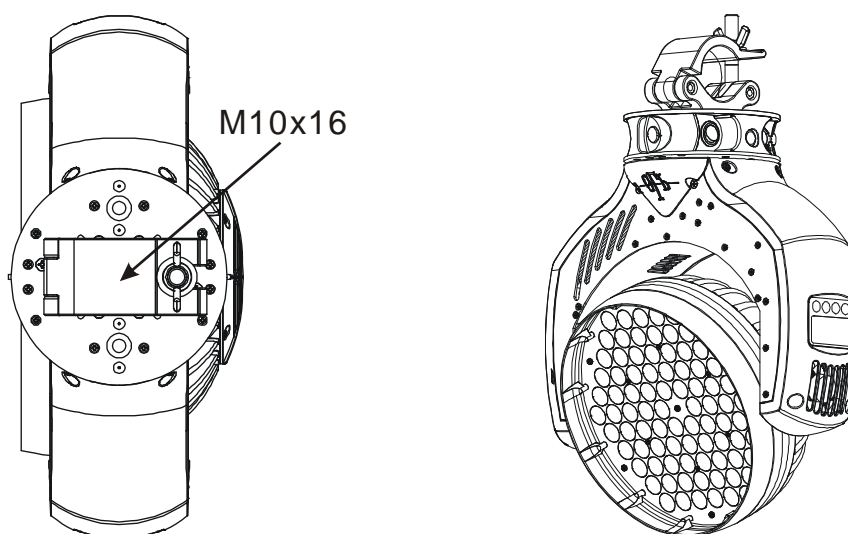
### 2.1.1 Mounting on the Floor (Upright)

To operate the **IMPRESSION** in an upright position, please use the dedicated tripod which is mounted to the bottom side of the system. It is fixed with fasteners called Camlock quick-release connectors. Turn the two fasteners both 90° to lock them. Do the opposite to release them again. On both sides you'll find eyelets to pull through a fixing strap. This allows an additional bracing of the system during the upright operation.



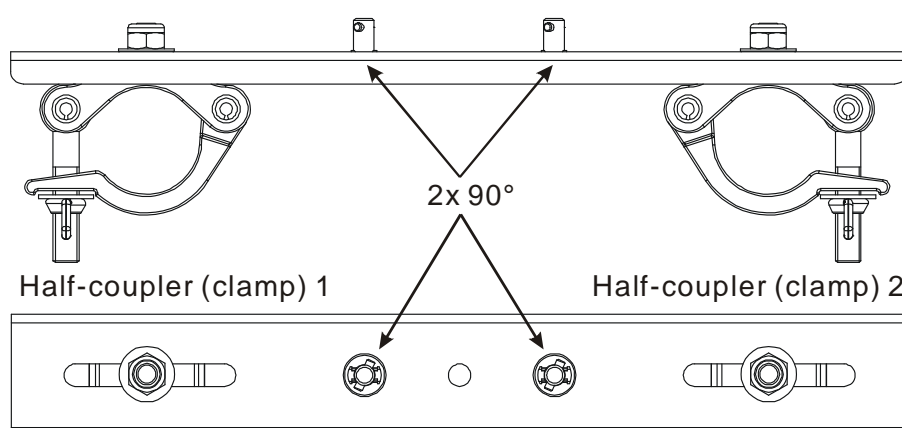
### 2.1.2 Mounting in hanging Position (Head first)

To operate the **IMPRESSION** in an hanging position, please use a half-coupler (clamp) which is mounted directly to the bottom side of the system. It is fixed centrally with a M10x16 mm thread bolt.

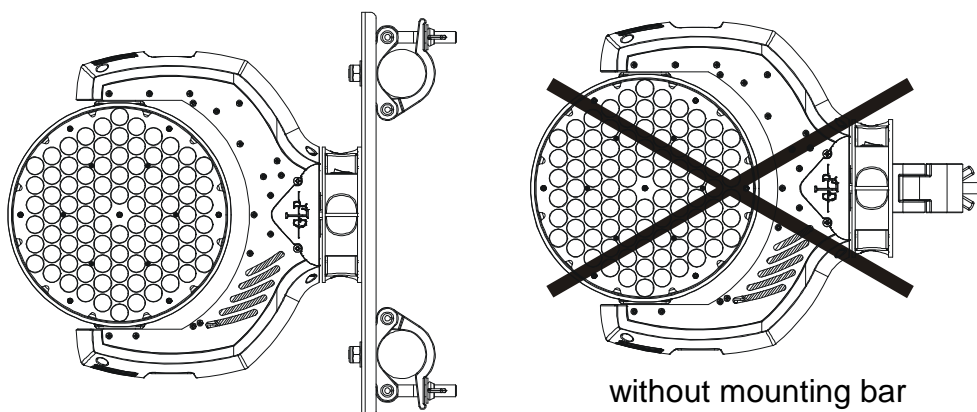


### 2.1.3 Mounting in sidewise Position

To operate the **IMPRESSION** in a sidewise position, please use an addition mounting bar. Also this is fixed by two Camlock quick-release connectors. Two half-couplers (clamps) are now used to mount the system to a standard truss bar. This technique is necessary to cope with the torque which accrues in this mounting position. In addition it allows a concentric position between two truss belts. Never use the "Mounting in hanging Position" technique described above to fasten the system in the sidewise position. A safe and sound installation can not be assured in this way. This can also damage the system base.







## 2.2 Secure the Device

Regardless of the mounting method of the **IMPRESSION** you'll have to use a stipulated safety wire. Therefore you have to pull the safety wire through to two provided holes on the bottom side of the system and connect it with the truss-support. Pay attention to a safe and proper fastening. Install a safety wire that can hold at least 10 times the weight of the fixture. Never use the carrying handles for this purpose.

**The safety wire must be attached in a way that the height of drop is minimised. A height of drop of more than 0.2m is strictly forbidden (→ BGI 810-3).**

## 2.3 Connections

### 2.3.1 Power Supply

~100-240 Volt AC, 50-60 Hz, earth contact type plug - Powercon

Connected load 350 VA (W)  $\Leftrightarrow$  T4A (micro-fuse 5x20mm)

Please see printing on the case for the right electronic supply!

**Disconnect from the mains supply for changing the fuse and use only the above described micro-fuse type.**

### 2.3.2 DMX

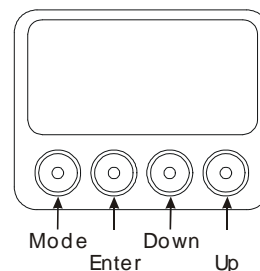
USITT DMX-512 Standard input/output in 3 pole connectors.

3 pole: Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+]

The DMX- Addressing starts at the DMX- Address [001].

### 3 The Menu Field

You'll find the control board on the side part of the arm. It allows you to make all necessary adjustments of the **IMPRESSION**. With the **Mode**-key you get into the main menu. Afterwards you can navigate through the menu with the **Up/Down**-keys. Push the **Enter**-key to get in the next menu level or to confirm your settings. Make them and set functions **ON/OFF** with the **Up/Down**-keys. Confirm and save it with the **Enter**-key (the display shows **OK**). Push the **Mode**-key to cancel the entry and go back to the main menu.



#### ← MODE - ENTER →

Level1	Level 2	Level 3	Level 4	Remark
DMX Start Address				Define the DMX start address
Special	Manual DMX			Manual control of all system functions
		Special		Activate the White- or Full-Power Mode; see also DMX table
		Dimmer		Manual control for Dimmer
		Shutter		Manual control for Shutter
		1/3 White		Manual control for 1/3 white, 30x LEDs (either warm- or cold white depending on the system)
		2/3 White		Manual control for 2/3 white, 60x LEDs (either warm- or cold white depending on the system)
	Display Contrast			Adjustment for the Display contrast
	Default Set			Resetting all functions to original values
	Set Dimmer Frequency			Changes PMW frequency between 600Hz and 1200Hz
	Adjust	Key code xxxx		Use the code for entering the calibration menu (for authorized persons only)
		Clear EEPROM		Erase EEPROM memory
		Diagnose		Diagnose functions
			Anz Ti0-Int-Err	Internal data and function diagnosis
			Dimmerwert für DIM1	Internal data and function diagnosis
			Dimmerwert für DIM2	Internal data and function diagnosis
			Dimmerwert für DIM3	Internal data and function diagnosis
			PFC Voltage	Shows the present PFC voltage
	Temperature Arm			Indicates the arm temperature
	Temperature Head			Indicates the head temperature
	DMX Hold			Defines whether the last DMX signal is stored or the lamp is switched OFF in case of signal interruption
	Position Feedback			Automatically position feedback (correction) for Pan/Tilt movement
	Set DMX Image			Stores the Scene currently sent to the unit

← DOWN - UP →

	<b>DMX input Monitor</b>		Indicates the presently received DMX signal per DMX channel
		<b>Special</b>	Current value for Special
		<b>Dimmer</b>	Current value for Dimmer
		<b>Shutter</b>	Current value for Shutter
		<b>1/3 White</b>	Current value for 1/3 White, 30x LEDs (either warm- or cold white depending on the system)
		<b>2/3 White</b>	Current value for 2/3 White, 60x LEDs (either warm- or cold white depending on the system)
<b>Self Test</b>			Performs an automatic self-test
<b>Live time</b>			Indicates the overall operation time of the system
<b>Display</b>			Adjust the display
	<b>Blackout</b>		ON/OFF: Display OFF
<b>Select DMX Mode</b>			Please select the desired DMX Mode
	<b>Compressed</b>		Only 5 DMX channels are being used if this Mode is activated
	<b>Normal</b>		4 DMX channels are being used if this Mode is activated
	<b>High-Resolution</b>		7 DMX channels are being used if this Mode is activated. Dimmer operates at 16 bit.
<b>Reset</b>			RESET and new calibration for all functions

## 4 DMX Channel Selection (DMX Protocol)

### Normal-Mode 5 DMX channels

Channel	Function	Time and Value	DMX	HEX	%
<b>1) White 2/3</b>	White Color, 60x LEDs (either warm- or cold white depending on the system)	0 - 100%	0..255	00..FF	0..100
<b>2) White 1/3</b>	White Color, 30x LEDs (either warm- or cold white depending on the system)	0 - 100%	0..255	00..FF	0..100
<b>3) Shutter</b>	Shutter closed		0..15	00..0F	0..5,5
	Random Pulse effect	slow - fast	16..47	10..2F	6..18,5
	Up-dimming then Shutter closing (random patterns)	slow - fast	48..79	30..4F	19..31
	Shutter open then down-dimming (random patterns)	slow - fast	80..111	50..6F	32..43
	Up-dimming then down-dimming (random patterns)	slow - fast	112..143	70..8F	44..56
	Strobe effect, stop break	5 sec. - 1 sec.	144..199	A0..C7	57..77
	Strobe effect, slow - fast	1 Hz .. 10 Hz	200..239	C8..EF	78..94
	Shutter open		240..255	F0..FF	95..100
<b>4) Dimmer</b>	Dimmer	0 - 100%	0..255	0..FF	0..100
<b>5) Special</b>	Fan min. as long as temp. < 60°C		224..249	E0..E5	88..89,5
	<b>RESET (Normal Mode)</b>		<b>250..255</b>	<b>FA..FF</b>	<b>98..100</b>

**Compress-Mode 4 DMX channels**

Channel	Function	Time and Value	DMX	HEX	%
<b>1) White 2/3</b>	White Color, 60x LEDs (either warm- or cold white depending on the system)	0 - 100%	0..255	00..FF	0..100
<b>2) White 1/3</b>	White Color, 30x LEDs (either warm- or cold white depending on the system)	0 - 100%	0..255	00..FF	0..100
<b>3) Shutter</b>	Shutter closed		0..15	00..0F	0..5,5
	Random Pulse effect	slow - fast	16..47	10..2F	6..18,5
	Up-dimming then Shutter closing (random patterns)	slow - fast	48..79	30..4F	19..31,5
	Shutter open then down-dimming (random patterns)	slow - fast	80..111	50..6F	32..43
	Up-dimming then down-dimming (random patterns)	slow - fast	112..143	70..8F	44..56
	Strobe effect, stop break	5 sec. - 1 sec.	144..199	A0..C7	57..77
	Strobe effect, slow - fast	1 Hz .. 10 Hz	200..239	C8..EF	78..94
	Shutter open		240..249	F0..F9	95..97,5
	<b>RESET</b>	<b>Min. 3 Sec.</b>	<b>250</b>	<b>FA</b>	<b>98</b>
<b>4) Dimmer</b>	Dimmer	0 - 100%	0..255	0..FF	0..100

**High Resolution (Extended)- Mode 11 DMX Channels**

Channel	Function	Time and Value	DMX	HEX	%
<b>1) White 2/3 coarse</b>	White Color, 60x LEDs (either warm- or cold white depending on the system)	0 - 100%	0..255	00..FF	0..100
<b>2) White 2/3 fine</b>	White - fine/low		0..255	00..FF	0..100
<b>3) White 1/3 coarse</b>	White Color, 30x LEDs (either warm- or cold white depending on the system)	0 - 100%	0..255	00..FF	0..100
<b>4) White 1/3 fine</b>	White - fine/low		0..255	00..FF	0..100
<b>5) Shutter</b>	Shutter closed		0..15	00..0F	0..5,5
	Random Pulse effect	slow - fast	16..47	10..2F	6..18,5
	Up-dimming then Shutter closing (random patterns)	slow - fast	48..79	30..4F	19..31,5
	Shutter open then down-dimming (random patterns)	slow - fast	80..111	50..6F	32..43
	Up-dimming then down-dimming (random patterns)	slow - fast	112..143	70..8F	44..56
	Strobe effect, stop break	5 sec. - 1 sec.	144..199	A0..C7	57..77
	Strobe effect, slow - fast	1 Hz .. 10 Hz	200..239	C8..EF	78..94
	<b>RESET</b>	<b>Min. 3 Sec.</b>	<b>250</b>	<b>FA</b>	<b>98</b>
<b>6) Dimmer-coarse</b>	Dimmer - coarse/high	0 - 100%	0..255	0..FF	0..100
<b>7) Dimmer-fine</b>	Dimmer - fine/low		0..255	0..FF	0..100

### Locking and unlocking the Control Panel

Please lock and unlock the control panel by pressing the menu keys **MODE & ENTER & UP** at the same time.

### Additional features during switching-ON the system

- a) 1200Hz Mode (Hold down the **UP- button** during power ON)

After switching ON the system the LEDs will be operated with a Pulse Width Modulation (PWM) of 1200Hz.

In addition all standard setting will be loaded (DMX start address [001] and Normal Mode.

- b) 600Hz Mode (Hold down the **DOWN- button** during power ON)

After switching ON the system the LEDs will be operated with a Pulse Width Modulation (PWM) of 600Hz.

In addition all standard setting will be loaded (DMX start address [001] and Normal Mode.

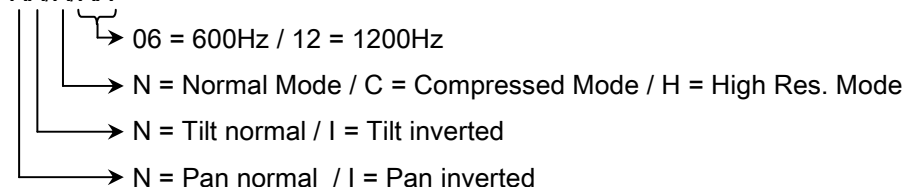
- c) Standard Mode (Hold down the **ENTER- button** during power ON)

After switching ON the system the DMX start address will be set to [001]. All other setting remain unchanged.

### Additional Display Indication

As a default you'll find the following additional information in the first row of the LCD display:

XX/X/XX



## 5 Maintaining and Cleaning the IMPRESSION

The **IMPRESSION** is a system of very low maintenance. It is only necessary to clean the air in- and outlets as well as the optical LED lenses from time to time. For a safe operation it is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not built up on or within the fixture. Otherwise the fixture's light-output will be significantly reduced or damages can occur. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to operate reliably throughout its life.

**A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!**

### 5.1 Safety regulations

- **Pull out the main plug!**
- Wait min. 15 minutes after the last operation to cool down the fixture.

### 5.2 Circumference and Interval (rule-of-thumb)

The contamination of the fixture depends on the environment details. Hence no general guidelines can be given. The intervals given below are only suggestions from our practice experience.

Position	Interval	In this way
LED reflector and optical system	weekly	soft brush /lint-free cloth
Fan and air channel	monthly	vacuum cleaner, airbrush, etc.

#### Attention:

- **Never let optical parts come into contact with oil or fat.**
- **Before running the fixture wait until all parts are dried up.**
- **Never touch lenses with bare fingers.**

## 6 Technical Specifications

<b>Power supply</b>	
<b>Power consumption</b>	350 VA (Watt)
<b>Power Input</b>	~100-240 V AC, 50-60 Hz (wide range input)
<b>Fuse protection</b>	Micro-fuse 5x20 mm, T4A
<b>Operational Parameters</b>	
<b>Max. Ambient Temperature</b>	45°C (integrated overheating switch)
<b>Mounting Position</b>	Any (see chapter mounting)
<b>Lighting System - Additive Color mixing (8/16 Bit)</b>	
<b>LED Type</b>	90x Luxeon K2 High-power- LEDs
<b>Lifetime</b>	50.000 h
→ <b>CCW version:</b> 60x LEDs cold white, 30x LEDs warm white	
→ <b>WWC version:</b> 30x LEDs cold white, 60x LEDs warm white	
<b>Optical System</b>	
High efficient Collimator cluster	
Exchangeable optical carrier with 10° light distribution angle (25° optional)	
Scattering light aperture	
<b>Shutter / Dimmer (8 Bit)</b>	
Strobe- Effect with variable speed between 1 - 10 flashes per second, Random-Strobe, Pulse-Effects	
Continuous Dimmer 0 - 100%	
<b>DMX Control</b>	
Standard USITT DMX-512, 3 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1. Die DMX- Addressing starts at the DMX channel [001].	
<b>Pan / Tilt (8/16 Bit)</b>	
<b>Pan- movement</b>	660° in min. 3,2 seconds (Position Feedback)
<b>Tilt- movement</b>	300° in min. 1,5 seconds (Position Feedback)
<b>Weights and Measures</b>	
<b>Width of the base</b>	340 mm
<b>Length of the base</b>	145 mm
<b>height (head vertical)</b>	370 mm
<b>Weight (net)</b>	7,5 kg

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